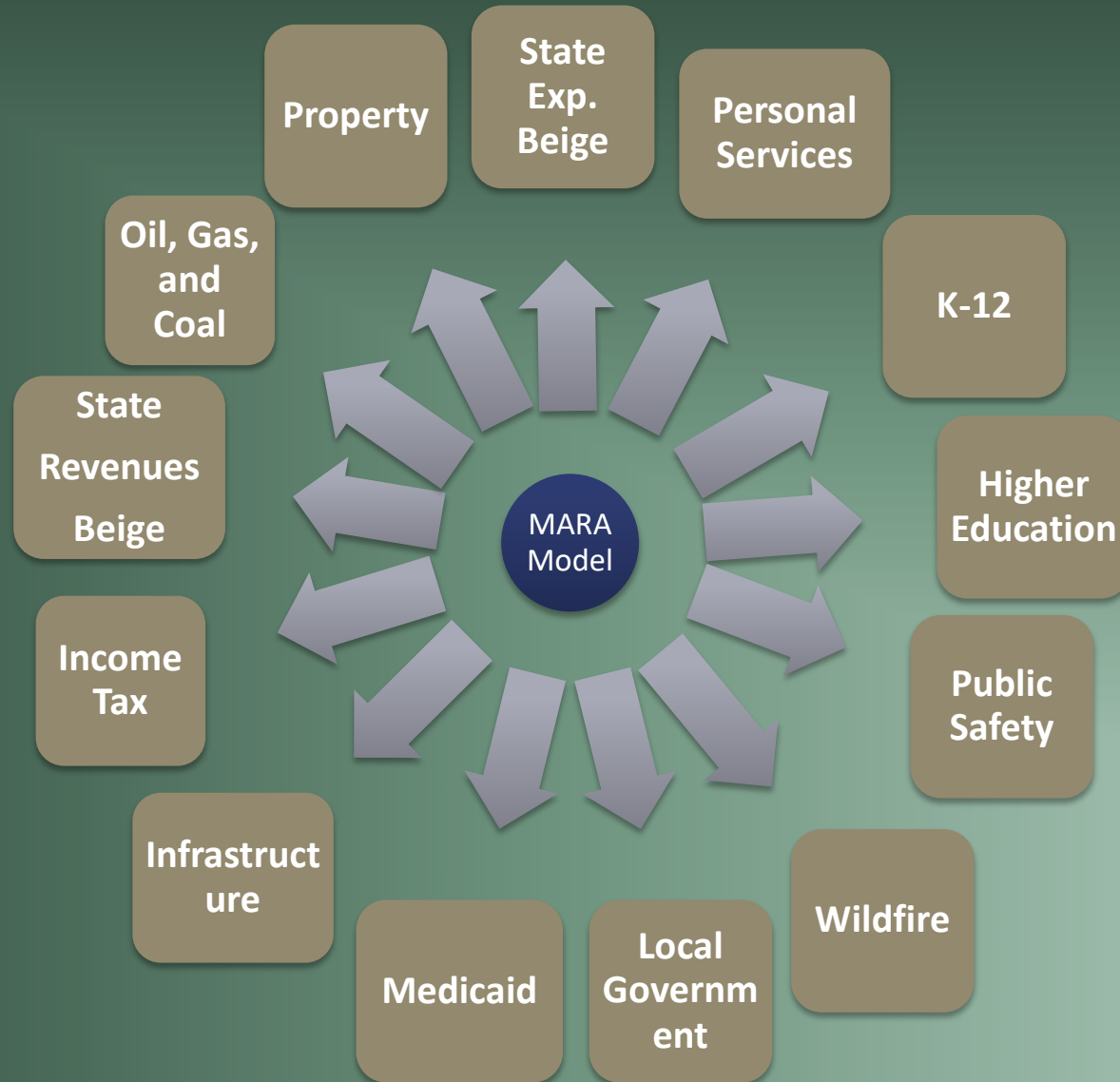


MARA'S MODULAR PROCESS



MARA COMMITTEE (5-12-601)

The committee shall study the long-term future budget and revenue needs of the state with changing economics and demographics.

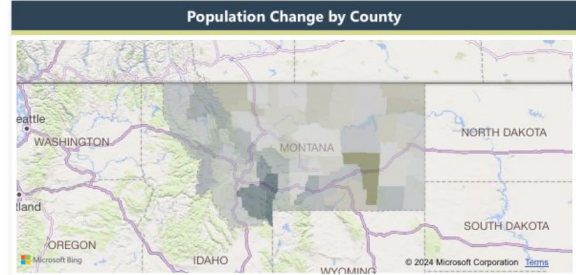
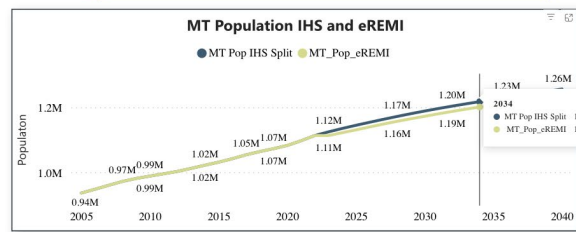
MARA COMMITTEE (5-12-601)

1. use available data and analytical resources to study the past, present, and future costs and revenues of all state and local government entities
2. create data sets and models for future analysis by the legislature
3. take affirmative measures to use and disseminate data generated by and for the committee

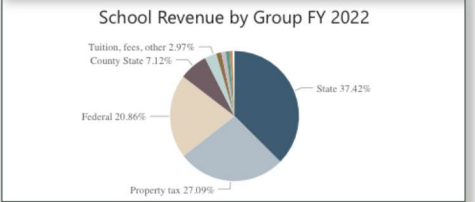
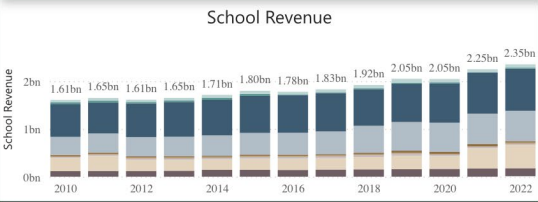
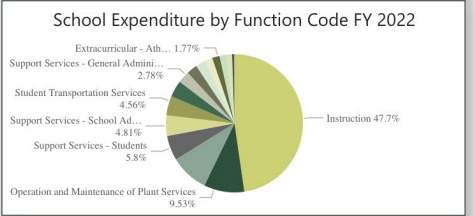
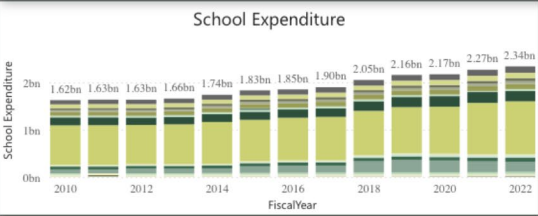
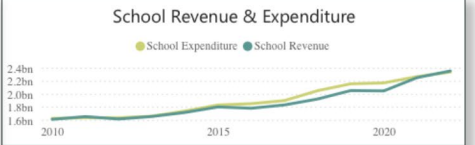
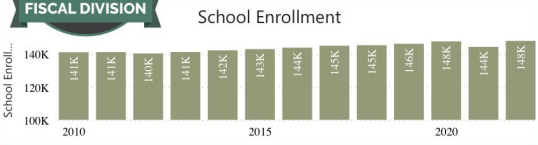
Montana Population History and Forecast



County Name: All | Fiscal Year: 2040 | Scenarios: eREMI, IHS



School Enrollment, Expenditures, & Revenue



Clear Filters

Slicer Options

County

- Beaverhead
- Big Horn
- Blaine
- Broadwater
- Carbon
- Carter
- Cascade

District Name

- Absarokee Elem
- Absarokee H S
- Albion Elem
- Alder Elem
- Alzada Elem
- Amsterdam Elem
- Anaconda Elem

Sources & Notes:

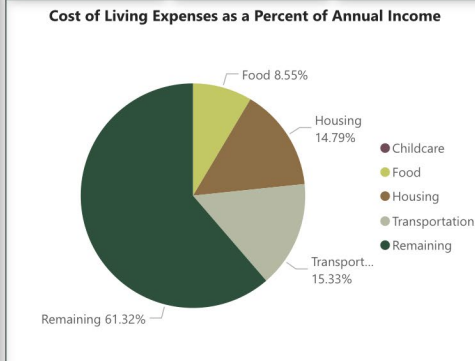
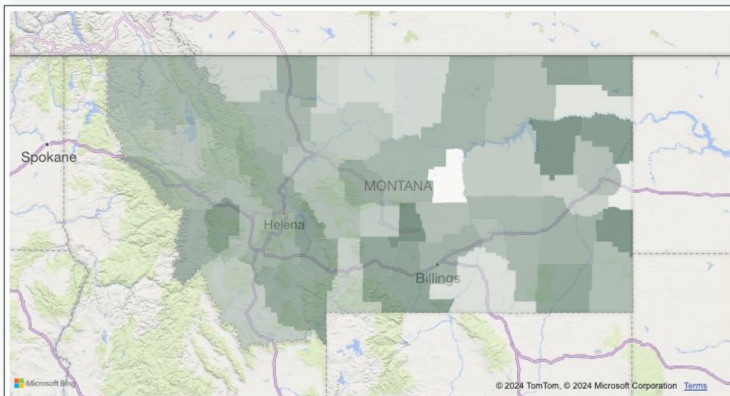
- Data from the Office of Public Instruction.
- Co-ops are not currently included in these data.

Montana Cost of Living

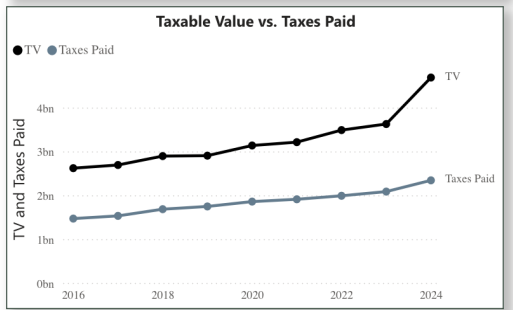
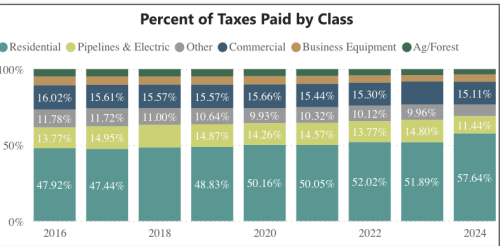
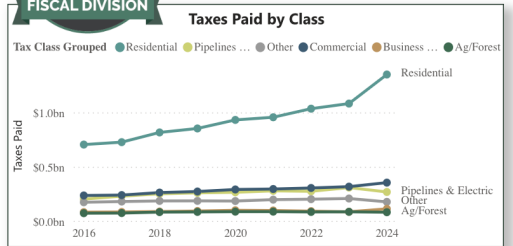


County: All | Adults in Household: 1 | Number of Children: 0

Adults in Household	Childcare	Food	Housing	Transportation	Total Cost of Living Expenses	Median Income	Minimum Wage	Poverty Wage
1	\$0	\$4,122	\$7,128	\$7,389	\$18,638	\$48,183	\$18,200	\$12,880
Total	\$0	\$4,122	\$7,128	\$7,389	\$18,638	\$48,183	\$18,200	\$12,880



General Property Tax Growth by Class



Compound Annual Growth Rate (CAGR) by Grouped Tax Class

Tax Class Grouped	CAGR Taxes Paid (8 year)	CAGR Year over Year FY23-24
Other	0.24%	-14.98%
Ag/Forest	1.46%	-4.36%
Pipelines & Electric	3.57%	-13.18%
Business Equipment	4.00%	31.64%
Commercial	5.22%	11.70%
Residential	8.47%	24.75%
Total	5.99%	12.29%

NOTE: Due to the nature of these data, there are many calculated fields in this dashboard. These fields are calculated estimates based on available data. If you have questions or concerns, please contact the Legislative Fiscal Division.

*** "Other" includes net proceeds of mines, gross proceeds of metal mines, pollution control equipment, noncentrally assessed utilities, airlines and railroads, telecommunication utilities and the electric generation property of electric utilities, renewable energy production and transmission property, carbon dioxide and liquid pipelines, high voltage converters, qualified data centers, and green hydrogen facilities.**

Data Sources:

- Montana Department of Revenue
- Montana Office of Public Instruction
- Montana Department of Administration

Slicer Options

Tax Class (Grouped)

- Ag/Forest
- Business Equipment
- Commercial
- Other
- Pipelines & Electric
- Residential

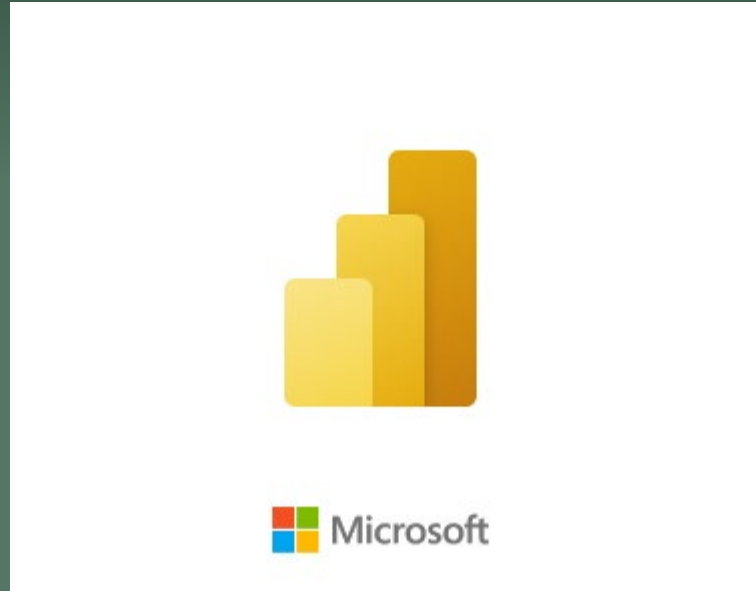
County Name

All

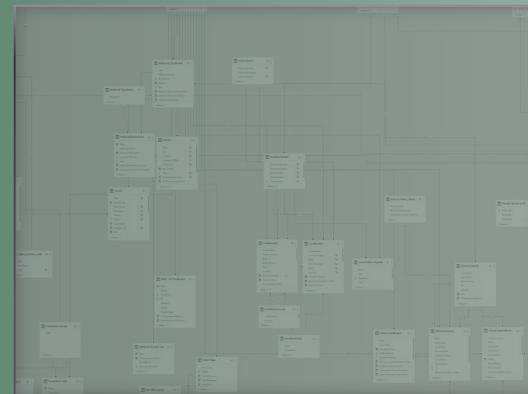
Municipality

All

MODEL CREATION



County Name	County Name with County	Alpha Sort	Licenses Alpha Char	County Seat	MDT Region	DOL Ecom Region	Tourism Region	HSDC District No
Brewster	Brewster County	1		1 Dillon	2 Southwest	Southwest MT	Butte	
Big Horn	Big Horn County	2		2 Hardin	3 South Central	Southeast MT	Billings	
Blaine	Blaine County	3		3 Chisnock	2 North Central	Central MT	Helena	
Broadwater	Broadwater County	4		4 Townsend	2 Southwest	Southwest MT	Helena	
Carbon	Carbon County	5		5 Red Lodge	3 South Central	Yellowstone County	Billings	
Carter	Carter County	6		6 Basalt	4 Eastern	Southeast MT	Missoula	
Cascade	Cascade County	7		7 Great Falls	3 North Central	Central MT	Great Falls	
Chouteau	Chouteau County	8		8 Ft. Benton	3 North Central	Central MT	Great Falls	
Custer	Custer County	9		9 Miles City	4 Eastern	Southeast MT	Missoula	
Daniels	Daniels County	10		10 Sidney	4 Eastern	Missouri River County	Glasgow	
Dawson	Dawson County	11		11 Glendive	4 Eastern	Southeast MT	Glendive	
Deer Lodge	Deer Lodge County	12		12 Anaconda	2 Southwest	Southwest MT	Butte	
Fallon	Fallon County	13		13 Baker	4 Eastern	Southeast MT	Missoula	
Fergus	Fergus County	14		14 Lewistown	3 South Central	Central MT	Lewistown	
Flintrock	Flintrock County	15		15 Kalispell	1 Northwest	Glacier County	Kalispell	
Gallatin	Gallatin County	16		16 Bozeman	2 Southwest	Yellowstone County	Bozeman	
Garfield	Garfield County	17		17 Jordan	4 Eastern	Missouri River County	Glendive	
Glacier	Glacier County	18		18 Cut Bank	3 North Central	Glacier County	Great Falls	
Golden Valley	Golden Valley County	19		19 Ruggles	5 South Central	Southeast MT	Lewistown	
Groene	Groene County	20		20 Philipsburg	1 Southwest	Southwest MT	Butte	
Hill	Hill County	21		21 Hare	3 North Central	Central MT	Helena	
Jefferson	Jefferson County	22		22 Boulder	2 Southwest	Southwest MT	Helena	
Judith Basin	Judith Basin County	23		23 Stanford	2 South Central	Central MT	Lewistown	
Lake	Lake County	24		24 Nelson	1 Northwest	Glacier County	Kalispell	
Lewis and Clark	Lewis and Clark County	25		25 Helena	3 Southwest	Southwest MT	Helena	
Liberty	Liberty County	26		26 Chester	3 North Central	Central MT	Helena	
Lincoln	Lincoln County	27		27 Libby	1 Northwest	Glacier County	Kalispell	
Madison	Madison County	28		28 Virginia City	2 Southwest	Southwest MT	Butte	
McCone	McCone County	29		29 Circle	4 Eastern	Missouri River County	Glendive	
Meagher	Meagher County	30		30 White Sulphur Springs	2 Southwest	Central MT	Bozeman	
Mineral	Mineral County	31		31 Spangon	1 Northwest	Glacier County	Missoula	
Missoula	Missoula County	32		32 Missoula	1 Northwest	Glacier County	Missoula	
Musselshell	Musselshell County	33		33 Roundup	5 South Central	Southeast MT	Lewistown	
Park	Park County	34		34 Crozons	2 Southwest	Yellowstone County	Bozeman	



```

CALCULATE (
    DISTINCTCOUNT ( 'Calendar'[FiscalYear] ),
    'Calendar'[FiscalYear] >= MinYr,
    'Calendar'[FiscalYear] <= MaxYr,
    ALL ( 'Calendar'[FiscalYear] )
)

VAR Calculation1 =
    CALCULATE (
        X1SqrSum - X1SumSqr / FiscalYearsDistinctCount,
        ALL ( 'Calendar'[FiscalYear] )
    )

VAR X2 =
    CALCULATE (
        SUMX ( 'Calendar', [CPI] ),
        'Calendar'[FiscalYear] >= MinYr,
        'Calendar'[FiscalYear] <= MaxYr
    )

VAR X2SumSqr =
    CALCULATE (
        SUMX ( 'Calendar', [CPI] ),
        'Calendar'[FiscalYear] >= MinYr,
        'Calendar'[FiscalYear] <= MaxYr,
        ALL ( 'Calendar' )
    )
^ 2
VAR X2SqrSum =
    CALCULATE (
        SUMX ( 'Calendar', [CPI] ^ 2 )
    )

```

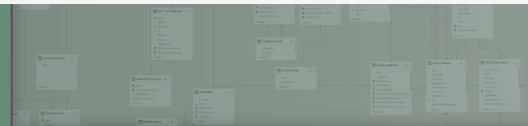
MODEL CREATION

County Name	County Name with County	Alpha Sort	License# Alpha Char	County Seat	MDT Region	DOLI Econ Region	Tourism Region	HRDC District - Na
Beaverhead	Beaverhead County	1	1	Dillon	2	Southwest	Southwest MT	Butte
Big Horn	Big Horn County	2	2	Hardin	5	South Central	Southeast MT	Billings
Blaine	Blaine County	3	3	Chinook	3	North Central	Central MT	Havre
Broadwater	Broadwater County	4	4	Townsend	2	Southwest	Southwest MT	Helena
Carbon	Carbon County	5	5	Red Lodge	5	South Central	Yellowstone Country	Billings
Carter	Carter County	6	6	Ekalaka	4	Eastern	Southeast MT	Miles City
Cascade	Cascade County	7	7	Great Falls	3	North Central	Central MT	Great Falls
Chouteau	Chouteau County	8	8	Ft. Benton	3	North Central	Central MT	Great Falls
Custer	Custer County	9	9	Miles City	4	Eastern	Southeast MT	Miles City
Daniels	Daniels County	10	10	Scobey	4	Eastern	Missouri River Country	Glasgow
Dawson	Dawson County	11	11	Glendive	4	Eastern	Southeast MT	Glendive
Deer Lodge	Deer Lodge County	12	12	Anaconda	2	Southwest	Southwest MT	Butte
Fallon	Fallon County	13	13	Baker	4	Eastern	Southeast MT	Miles City
Fergus	Fergus County	14	14	Lewistown	5	South Central	Central MT	Lewistown
Flathead	Flathead County	15	15	Kalispell	1	Northwest	Glacier Country	Kalispell
Gallatin	Gallatin County	16	16	Bozeman	2	Southwest	Yellowstone Country	Bozeman
Garfield	Garfield County	17	17	Jordan	4	Eastern	Missouri River Country	Glendive
Glacier	Glacier County	18	18	Cut Bank	3	North Central	Glacier Country	Great Falls
Golden Valley	Golden Valley County	19	19	Ryegate	5	South Central	Southeast MT	Lewistown
Granite	Granite County	20	20	Philipsburg	1	Southwest	Southwest MT	Butte
Hill	Hill County	21	21	Havre	3	North Central	Central MT	Havre
Jefferson	Jefferson County	22	22	Boulder	2	Southwest	Southwest MT	Helena
Judith Basin	Judith Basin County	23	23	Stanford	5	South Central	Central MT	Lewistown
Lake	Lake County	24	24	Polson	1	Northwest	Glacier Country	Kalispell
Lewis and Clark	Lewis and Clark County	25	25	Helena	3	Southwest	Southwest MT	Helena
Liberty	Liberty County	26	26	Chester	3	North Central	Central MT	Havre
Lincoln	Lincoln County	27	27	Libby	1	Northwest	Glacier Country	Kalispell
Madison	Madison County	28	28	Virginia City	2	Southwest	Southwest MT	Butte
McCone	McCone County	29	29	Circle	4	Eastern	Missouri River Country	Glendive
Meagher	Meagher County	30	30	White Sulphur Springs	2	Southwest	Central MT	Bozeman
Mineral	Mineral County	31	31	Superior	1	Northwest	Glacier Country	Missoula
Missoula	Missoula County	32	32	Missoula	1	Northwest	Glacier Country	Missoula
Musselshell	Musselshell County	33	33	Roundup	5	South Central	Southeast MT	Lewistown
Park	Park County	34	34	Livingston	2	Southwest	Yellowstone Country	Bozeman

Data

Q Search

- > Assets L3
- > Assets L4
- > Calendar
- > City Population Data
- > CITY_TRIAL_BALANCE
- > County Pop
- > COUNTY_TRIAL_BALANCE_
- > Entity/Year
- > Exp L1
- > Exp L2
- > Exp L3
- > Exp Object L1
- > Exp Object L2
- > Exp Regression Selection
- > Forecast Sum Table
- > Forecast Variables
- > Fund Level 1
- > Fund Level 2
- > Growth
- > IHS MT
- > Inflation Slicer
- > Liab L1
- > Liab L2
- > Liab L3
- > LocalGovt L1
- > LocalGovt L2
- > MTCountryInfo
- > Prop Tax - Kurt
- > Prop Tax Connection



```

CALCULATE (
    SUMX ( 'Calendar', [CPI] ),
    'Calendar'[FiscalYear] >= MinYr,
    'Calendar'[FiscalYear] <= MaxYr,
    ALL ( 'Calendar' )
) ^ 2
VAR X2SqrSum =
    CALCULATE (
        SUMX ( 'Calendar', [CPI] ^ 2 )
    )

```


MODEL CREATION

```

CALCULATE (
    DISTINCTCOUNT ( 'Calendar'[FiscalYear] ),
    'Calendar'[FiscalYear] >= MinYr,
    'Calendar'[FiscalYear] <= MaxYr,
    ALL ( 'Calendar'[FiscalYear] )
)
VAR Calculation1 =
    CALCULATE (
        X1SqrdSum - ( X1SumSqrd / FiscalYearsDistinctCount ),
        ALL ( 'Calendar'[FiscalYear] )
    )
VAR X2 =
    CALCULATE (
        SUMX ( 'Calendar', [CPI] ),
        'Calendar'[FiscalYear] >= MinYr,
        'Calendar'[FiscalYear] <= MaxYr
    )
VAR X2SumSqrd =
    CALCULATE (
        SUMX ( 'Calendar', [CPI] ),
        'Calendar'[FiscalYear] >= MinYr,
        'Calendar'[FiscalYear] <= MaxYr,
        ALL ( 'Calendar' )
    ) ^ 2
VAR X2SqrdSum =
    CALCULATE (
        SUMX ( 'Calendar', [CPI] ^ 2 ),

```


County Name	County Name with County	Alpha Sort	License# Alpha Char	County Seat	MDT Region	DOI Ecoregion
Beaverhead	Beaverhead County	1		1 Dillon	2	Southwest
Big Horn	Big Horn County	2		2 Hardin	3	South Central
Blaine	Blaine County	3		3 Chewick	2	North Central
Broadwater	Broadwater County	4		4 Townsend	2	Southwest
Carbon	Carbon County	5		5 Red Lodge	3	South Central
Carter	Carter County	6		6 Bowles	4	Eastern
Cascade	Cascade County	7		7 Great Falls	3	North Central
Chouteau	Chouteau County	8		8 Ft. Benton	3	North Central
Custer	Custer County	9		9 Miles City	4	Eastern
DeWitt	Daniels County	10		10 Scooby	4	Eastern
Dawson	Dawson County	11		11 Glendive	4	Eastern
Deer Lodge	Deer Lodge County	12		12 Anderson	2	Southwest
Fallon	Fallon County	13		13 Baker	4	Eastern
Fergus	Fergus County	14		14 Lewistown	3	South Central
Flathead	Flathead County	15		15 Kalispell	1	Northwest
Gallatin	Gallatin County	16		16 Bozeman	2	Southwest
Garfield	Garfield County	17		17 Jordan	4	Eastern
Glacier	Glacier County	18		18 Cut Bank	2	North Central
Golden Valley	Golden Valley County	19		19 Burgaw	3	South Central
Groenle	Groenle County	20		20 Philipsburg	1	Southwest
Hill	Hill County	21		21 Havre	3	North Central
Jefferson	Jefferson County	22		22 Boulder	2	Southwest
Justin Basin	Justin Basin County	23		23 Starbuck	3	South Central
Lake	Lake County	24		24 Polson	1	Northwest
Levi and Clark	Levi and Clark County	25		25 Helena	3	Southwest
Liberty	Liberty County	26		26 Chester	3	North Central
Lincoln	Lincoln County	27		27 Libby	1	Northwest
Madison	Madison County	28		28 Virginia City	2	Southwest
McCone	McCone County	29		29 Eureka	4	Eastern
Meagher	Meagher County	30		30 White Sulphur Springs	2	Southwest
Mineral	Mineral County	31		31 Superior	1	Northwest
Missoula	Missoula County	32		32 Missoula	1	Northwest
Musselshell	Musselshell County	33		33 Roundup	3	South Central
Park	Park County	34		34 Livingston	2	Southwest

The screenshot shows a software interface with a list of counties and their corresponding locations. The list includes counties like Glacier, Hill, Jefferson, Justin Basin, Lake, Levi and Clark, Liberty, Lincoln, Madison, McCone, Meagher, Mineral, Missoula, Musselshell, and Park. The locations listed include Kalispell, Butte, Glacier, Bozeman, Central MT, Missoula, Glacier County, Missoula, Glacier County, Missoula, Yellowstone County, and Bozeman. There are also search bars for 'Loc L1', 'Loc L2', and 'Loc L3'. A button labeled 'Prop Tax - Kurt' is visible at the bottom right.

PUBLICLY AVAILABLE

Interactive Tools - Montana Leg...
legmt.gov/afd/interactive-tools/

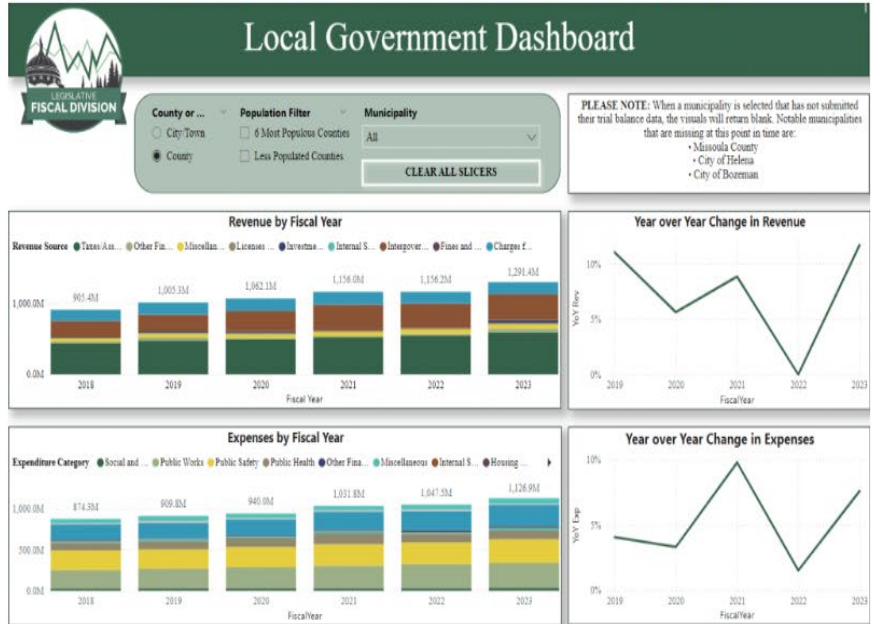
Now Streaming

Bills ▾ Legislators ▾ Committees ▾  Laws ▾ Services ▾ Fiscal ▾ Audit

KEY TAKEAWAYS

- An almost complete local government financial data set.
- Summary statistics are now available to see the mix of spending and revenue, and to compare municipalities.

click the link below this image to access the Local Government data tool



The screenshot shows the 'Local Government Dashboard' interface. It includes a navigation menu with 'County or...' (City/Town, County), 'Population Filter' (Most/Less Populated Counties), and 'Municipality' (All, dropdown). A 'CLEAR ALL SLICERS' button is present. The dashboard features four charts: 'Revenue by Fiscal Year' (stacked bar chart from 2018 to 2023), 'Year over Year Change in Revenue' (line chart), 'Expenses by Fiscal Year' (stacked bar chart from 2018 to 2023), and 'Year over Year Change in Expenses' (line chart). A 'PLEASE NOTE' box mentions missing data for Missoula County, City of Helena, and City of Bozeman.

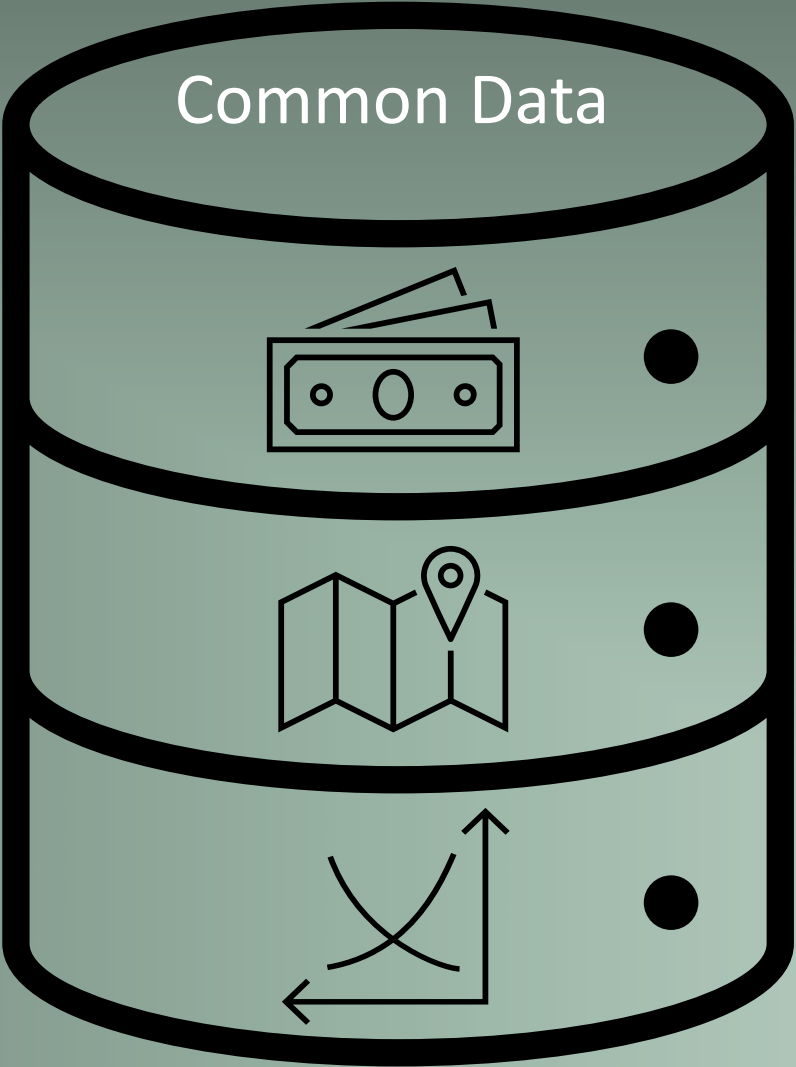
» **Local Government Historic Revenues & Expenditures Tool**

- **Local Government**
 - **Reports**
 - HJ 30: Study of County Water and/or Sewer Districts (Toni Henneman, Local Government Interim Committee)

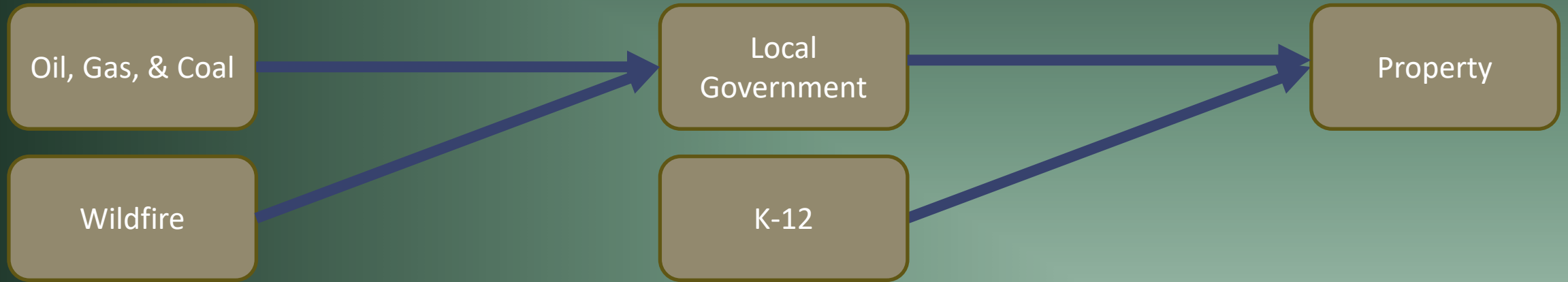
+ Property Taxes & Changing Land Value

+ MARA Meeting Materials & Other Related Information

Common Data



EXAMPLE CONNECTION



MANY POTENTIAL CONNECTIONS

Wildfire

Medicaid

K-12

Infrastructure

Public Safety

Income Tax

Property

Demographics

Oil, Gas, & Coal

Local
Government

State Revenues
Beige

Housing

Higher
Education

Personal
Services

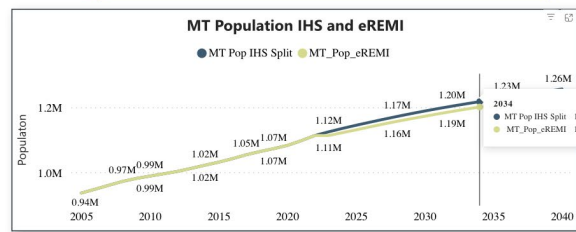
State Exp.
Beige

Cost of Living

Montana Population History and Forecast

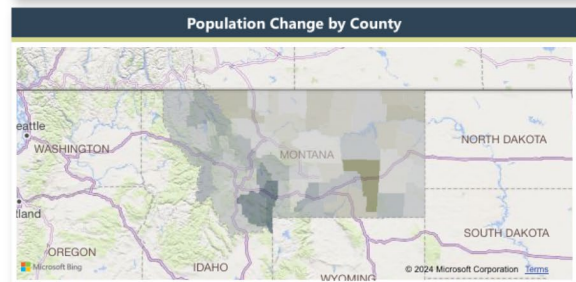


County Name: All | Fiscal Year: 2040 | Scenarios: eREMI, IHS

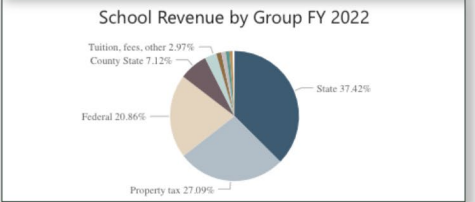
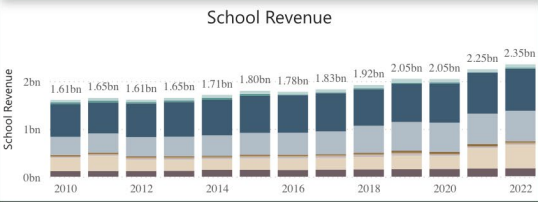
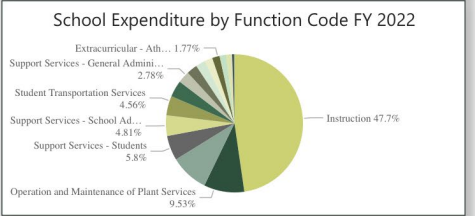
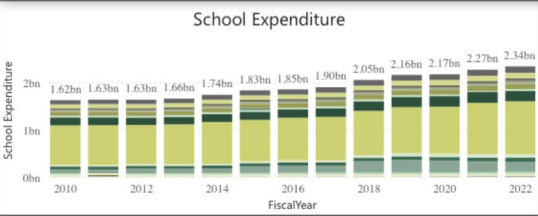
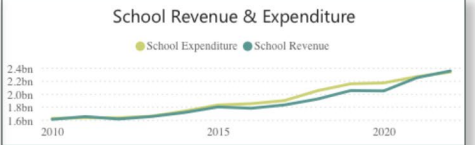
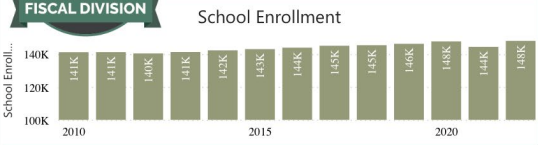


1.26M Population
34.1% Population Change

NOTES:
• Data Sources: IHS Market, Regional Economic Modeling Inc.
• Percentage Change is based on 2005 starting point
• IHS data is not provided by county, so all IHS county values are IHS totals allocated by REMI county percentages
• Historic population years have slightly different values in IHS and eREMI data. For consistency, IHS values are used for past years.



School Enrollment, Expenditures, & Revenue



Clear Filters

Slicer Options

County

- Beaverhead
- Big Horn
- Blaine
- Broadwater
- Carbon
- Carter
- Cascade

District Name

- Absarokee Elem
- Absarokee H S
- Albion Elem
- Alder Elem
- Alzada Elem
- Amsterdam Elem
- Anaconda Elem

Sources & Notes:

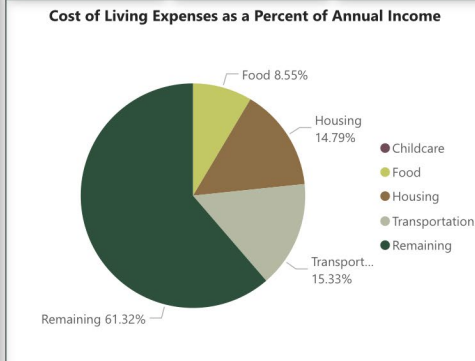
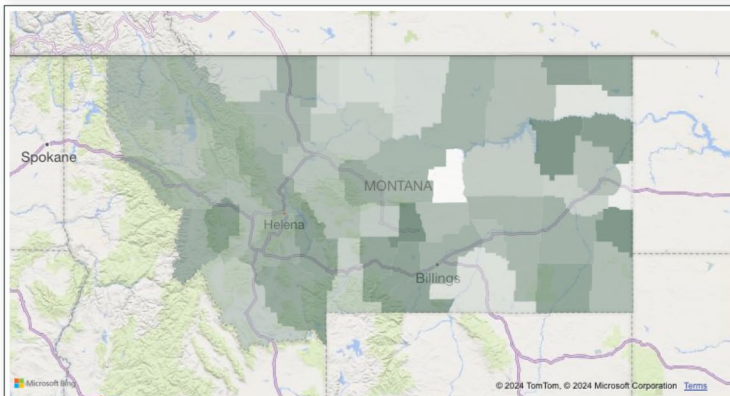
- Data from the Office of Public Instruction.
- Co-ops are not currently included in these data.

Montana Cost of Living

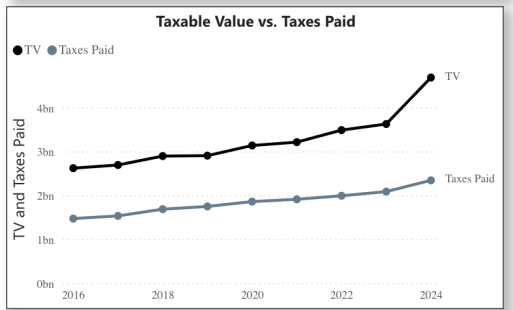
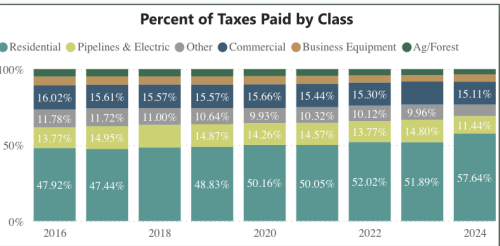
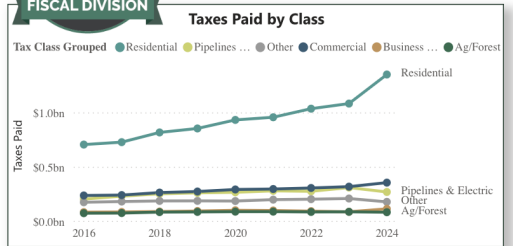


County: All | Adults in Household: 1 | Number of Children: 0, 1, 2, 3

Adults in Household	Childcare	Food	Housing	Transportation	Total Cost of Living Expenses	Median Income	Minimum Wage	Poverty Wage
1	\$0	\$4,122	\$7,128	\$7,389	\$18,638	\$48,183	\$18,200	\$12,880
Total	\$0	\$4,122	\$7,128	\$7,389	\$18,638	\$48,183	\$18,200	\$12,880



General Property Tax Growth by Class



Compound Annual Growth Rate (CAGR) by Grouped Tax Class

Tax Class Grouped	CAGR Taxes Paid (8 year)	CAGR Year over Year FY23-24
Other	0.24%	-14.98%
Ag/Forest	1.46%	-4.36%
Pipelines & Electric	3.57%	-13.18%
Business Equipment	4.00%	31.64%
Commercial	5.22%	11.70%
Residential	8.47%	24.75%
Total	5.99%	12.29%

NOTE: Due to the nature of these data, there are many calculated fields in this dashboard. These fields are calculated estimates based on available data. If you have questions or concerns, please contact the Legislative Fiscal Division.

* "Other" includes net proceeds of mines, gross proceeds of metal mines, pollution control equipment, noncentrally assessed utilities, airlines and railroads, telecommunication utilities and the electric generation property of electric utilities, renewable energy production and transmission property, carbon dioxide and liquid pipelines, high voltage converters, qualified data centers, and green hydrogen facilities.

Data Sources:

- Montana Department of Revenue
- Montana Office of Public Instruction
- Montana Department of Administration

Slicer Options

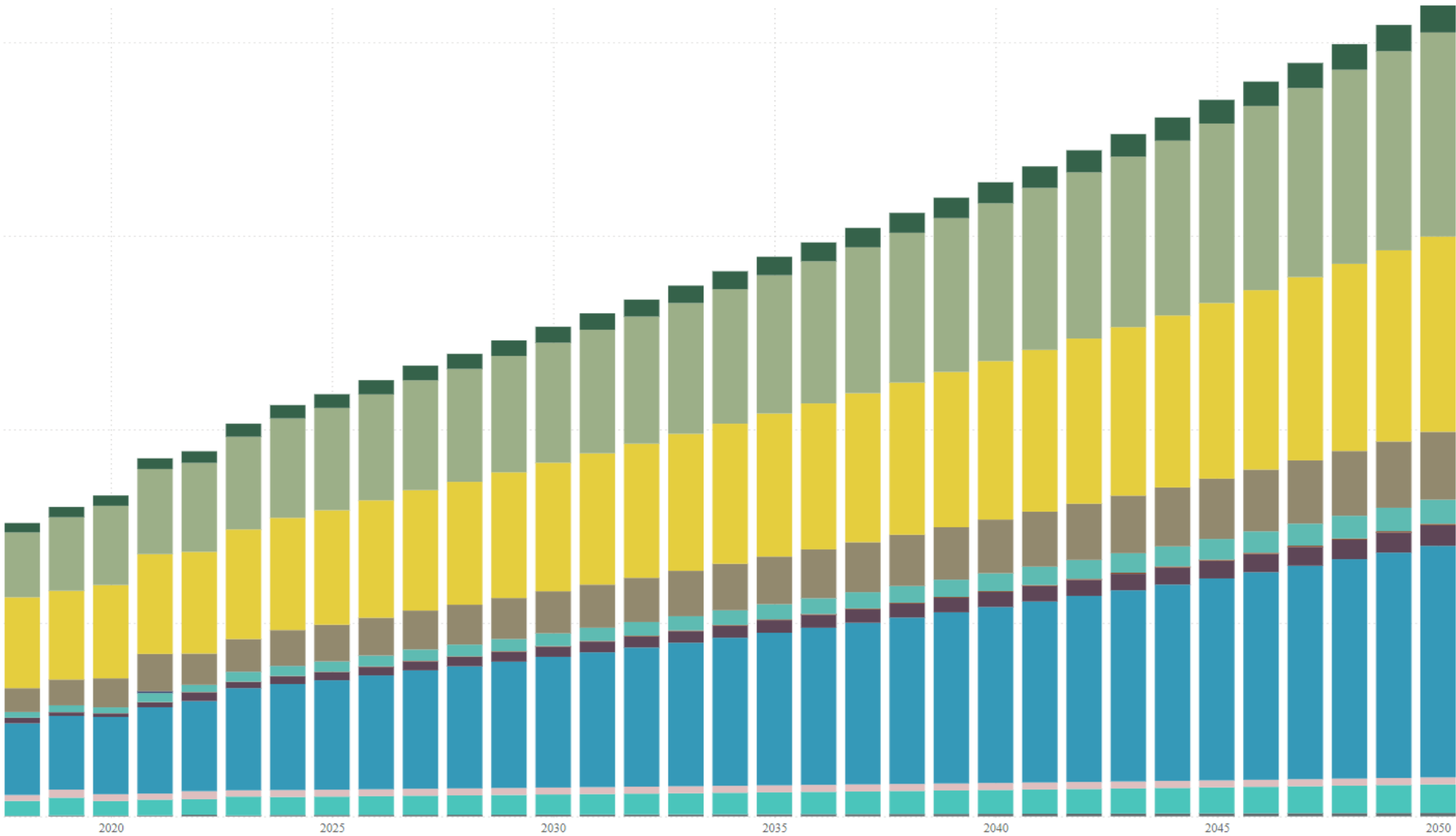
Tax Class (Grouped)

- Ag/Forest
- Business Equipment
- Commercial
- Other
- Pipelines & Electric
- Residential

County Name: All

Municipality: All

Expenditure Category ● Conservation of Nat... ● Culture and Recre... ● Debt Service ● General Govern... ● Housing and Co... ● Internal Services ● Miscellaneous ● Other Financing ... ● Public Health ● Public Safety ● Public Works ● Social and Eco...




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